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SEARCH REQUEST FORM

Requester's Full Name: Kristin Bianchi Examiner #: [REDACTED] Date: 6/13/08
 Art Unit: 4151 Phone Number: 505232 Serial Number: 101567383
 Location (If applicable): 6634 (Mailbox #): N/A Results Format Preferred (circle): PAPER DISK

To ensure an efficient and quality search, please attach a copy of the relevant claims and abstract or fill out the following:

Title of Invention: 4-Biphenyl-5-substituted Pyrazolidin-3-S-Dioxane-1-ester
 Inventors (please provide full names): Agent and/or microbicide and/or herbicide
Reinard Fissburg, Ernst Giesing, Dieter Fucht, Karl Heinz Kuck,
 Earliest Priority Date: 8/14/03 Peter Losel, Olga Malsbinn, Christian
Arnold, Thomas Anker, Martin Hill,
 Search Topic: Heine
 Please provide a detailed summary of the search topic, not describe or specifically describe the subject matter to be searched. Include the chemical species or structure, keywords, synonyms, and registry numbers, and specify the concept or utility of the invention.
 Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only Please include all pertinent information (parent, child, derivative, or other patent numbers) along with the appropriate access numbers.

please search claim 1.

=> fil cap

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FILE COVERS 1907 - 17 Jun 2008 VOL 148 ISS 25
FILE LAST UPDATED: 16 Jun 2008 (20080616/ED)

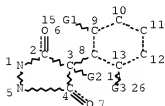
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=> d que l8

L5 STR

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VAR G1=X/16/17/19/21/23/NO2/CN

VAR G2=X/NO2

VAR G3=H/X/16/17/21/23/NO2/CN

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 16

CONNECT IS E1 RC AT 18

CONNECT IS E1 RC AT 20

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE

L7 102 SEA FILE=REGISTRY SSS FUL L5

L8 2 SEA FILE=CAPLUS ABB=ON PLU=ON L7

=> fil wpix

FILE 'WPIX' ENTERED AT 15:47:36 ON 17 JUN 2008

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FILE LAST UPDATED:

15 JUN 2008 <20080615/UP>

MOST RECENT THOMSON SCIENTIFIC UPDATE: 200837 <200837/DW>
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 ECLA reclassifications to April and US national classifications to the end of January 2008 have also been loaded. Update dates 20080401/UPEC and /UPNC have been assigned to these. <<<

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FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE
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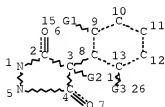
>>> HELP for European Patent Classifications see HELP ECLA, HELP ICO <<<

>>> Please note that the COPYRIGHT notification has changed <<<

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L5 STR

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NODE ATTRIBUTES:

CONNECT IS E1 RC AT 16

CONNECT IS E1 RC AT 18

CONNECT IS E1 RC AT 20

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE

L10 76 SEA FILE=WPIX SSS FUL L5
 L11 2 SEA FILE=WPIX ABB=ON PLU=ON L10/DCR

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FILE CONTENT: 1961-PRESENT VOL 148 ISS 23 (20080613/ED)

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MOST RECENT CITATIONS FOR PATENTS FROM MAJOR ISSUING AGENCIES
 (COVERAGE TO THESE DATES IS NOT COMPLETE):

US 20080119550 22 MAY 2008
 DE 102006050925 30 APR 2008
 EP 1916255 30 APR 2008
 JP 2008098481 24 APR 2008
 WO 2008054368 08 MAY 2008
 GB 2442953 23 APR 2008
 FR 2907784 02 MAY 2008
 RU 2323225 27 APR 2008
 CA 2562661 05 APR 2008

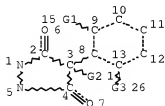
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 have increased from 100,000 to 200,000 for both on-line and batch
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L5 STR

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VAR G2=X/NO2

VAR G3=H/X/16/17/21/23/NO2/CN

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 16

CONNECT IS E1 RC AT 18

CONNECT IS E1 RC AT 20

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
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STEREO ATTRIBUTES: NONE
L13 4 SEA FILE=MARPAT SSS FUL L5

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PROCESSING COMPLETED FOR L8
PROCESSING COMPLETED FOR L11
PROCESSING COMPLETED FOR L13
L16 4 DUP REM L8 L11 L13 (4 DUPLICATES REMOVED)
ANSWERS '1-2' FROM FILE CAPLUS
ANSWERS '3-4' FROM FILE MARPAT

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L16 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS ON STN DUPLICATE 1
ACCESSION NUMBER: 2005:158674 CAPLUS Full-text
DOCUMENT NUMBER: 142:261533
TITLE: Preparation of 4-biphenylpyrazolidin-3,5-diones as
pesticide agents
INVENTOR(S): Fischer, Reiner; Gesing, Ernst Rudolf F.; Feucht,
Dieter; Kuck, Karl-Heinz; Loesel, Peter; Malsam, Olga;
Arnold, Christian; Auler, Thomas; Hills, Martin
Jeffrey; Kehne, Heinz
PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 114 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005016933	A1	20050224	WO 2004-EP8639	20040802
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,			

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SN, TD, TG

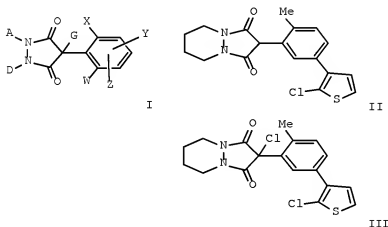
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EP 1656383	A1	20060517	EP 2004-763709	20040802
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1835954	A	20060920	CN 2004-80023261	20040802
BR 2004013583	A	20061017	BR 2004-13583	20040802
JP 2007502256	T	20070208	JP 2006-522946	20040802
IN 2006DE00003	A	20070831	IN 2006-DE3	20060102
US 20070093391	A1	20070426	US 2006-567383	20060906

PRIORITY APPLN. INFO.:

DE 2003-10337496	A	20030814
IN 2004-DE1308	A3	20040716
WO 2004-EP8639	W	20040802

OTHER SOURCE(S): MARPAT 142:261533

GI



AB Title compds. I [X = halo, alkyl alkenyl, etc.; Y = (un)substituted aryl, heteroaryl; A = H, (un)substitute alkyl, alkenyl, etc.; D = H, (un)substituted alkyl, alkenyl; G = halo, NO₂; W = H, halo, alkyl; Z = H, halo, alkyl, etc.] were prepared For example, tert-Bu hypochlorite mediated chlorination of dione II, afforded pyrazolidine-3,5-dione III in 57% yield. Compds. I are claimed to be useful as pesticide agents.

II 845896-09-5P 845896-10-8P 845896-11-9P
845896-12-0P 845896-13-1P 845896-14-2P
845896-15-3P 845896-16-4P 845896-18-6P
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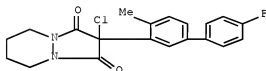
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 845896-76-6P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of biphenylpyrazolidin-3,5-diones as pesticide agents)

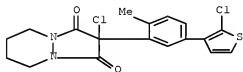
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CN 1H-Pyrazolo[1,2-a]pyridazine-1,3(2H)-dione, 2-chloro-2-(4'-fluoro-4-methyl[1,1'-biphenyl]-3-yl)tetrahydro- (CA INDEX NAME)



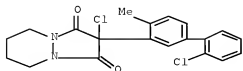
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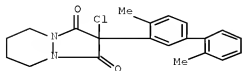
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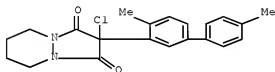
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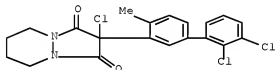
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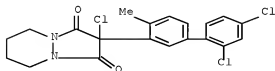
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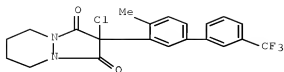
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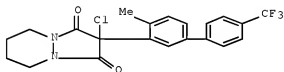
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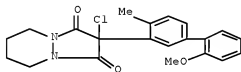
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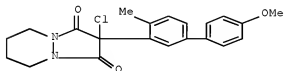
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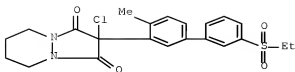
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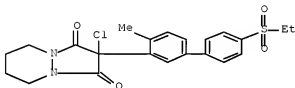
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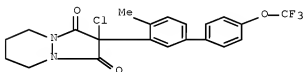
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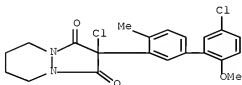
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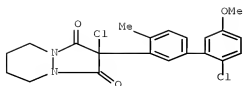
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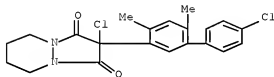
RN 845896-25-5 CAPLUS

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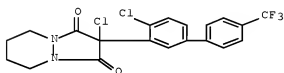
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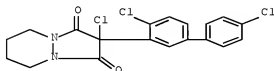
RN 845896-27-7 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazine-1,3(2H)-dione, 2-chloro-2-[4-chloro-4'-(trifluoromethyl)[1,1'-biphenyl]-3-yl]tetrahydro- (CA INDEX NAME)



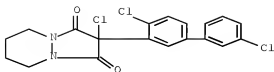
RN 845896-28-8 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazine-1,3(2H)-dione, 2-chloro-2-(4,4'-dichloro[1,1'-biphenyl]-3-yl)tetrahydro- (CA INDEX NAME)



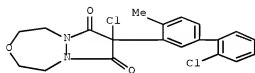
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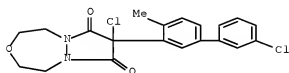
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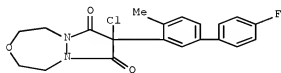
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CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(3'-chloro-4-methyl[1,1'-biphenyl]-3-yl)tetrahydro- (CA INDEX NAME)



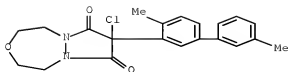
RN 845896-32-4 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(4'-fluoro-4-methyl[1,1'-biphenyl]-3-yl)tetrahydro- (CA INDEX NAME)



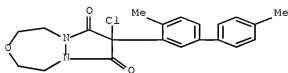
RN 845896-33-5 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(3',4-dimethyl[1,1'-biphenyl]-3-yl)tetrahydro- (CA INDEX NAME)



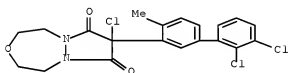
RN 845896-34-6 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(4,4'-dimethyl[1,1'-biphenyl]-3-yl)tetrahydro- (CA INDEX NAME)



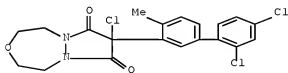
RN 845896-35-7 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(2',3'-dichloro-4-methyl[1,1'-biphenyl]-3-yl)tetrahydro- (CA INDEX NAME)



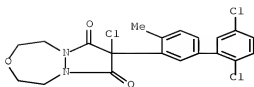
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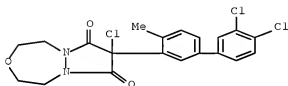
RN 845896-37-9 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(2',5'-dichloro-4-methyl[1,1'-biphenyl]-3-yl)tetrahydro- (CA INDEX NAME)



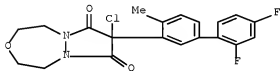
RN 845896-38-0 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(3',4'-dichloro-4-methyl[1,1'-biphenyl]-3-yl)tetrahydro- (CA INDEX NAME)



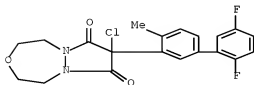
RN 845896-39-1 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(2',4'-difluoro-4-methyl[1,1'-biphenyl]-3-yl)tetrahydro- (CA INDEX NAME)



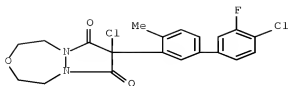
RN 845896-40-4 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(2',5'-difluoro-4-methyl[1,1'-biphenyl]-3-yl)tetrahydro- (CA INDEX NAME)



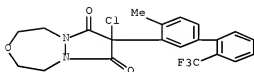
RN 845896-41-5 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(4'-chloro-3'-fluoro-4-methyl[1,1'-biphenyl]-3-yl)tetrahydro- (CA INDEX NAME)



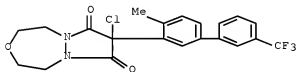
RN 845896-42-6 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chlorotetrahydro-8-[4-methyl-2'-(trifluoromethyl)[1,1'-biphenyl]-3-yl]- (CA INDEX NAME)



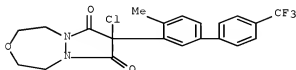
RN 845896-43-7 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chlorotetrahydro-8-[4-methyl-3'-(trifluoromethyl)[1,1'-biphenyl]-3-yl]- (CA INDEX NAME)



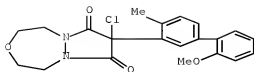
RN 845896-44-8 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chlorotetrahydro-8-[4-methyl-4'-(trifluoromethyl)[1,1'-biphenyl]-3-yl]- (CA INDEX NAME)



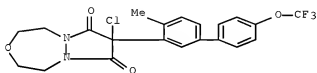
RN 845896-45-9 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chlorotetrahydro-8-(2'-methoxy-4-methyl[1,1'-biphenyl]-3-yl)- (CA INDEX NAME)



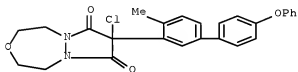
RN 845896-46-0 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chlorotetrahydro-8-[4-methyl-4'-(trifluoromethoxy)[1,1'-biphenyl]-3-yl]- (CA INDEX NAME)



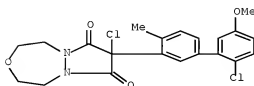
RN 845896-47-1 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chlorotetrahydro-8-(4-methyl-4'-phenoxy[1,1'-biphenyl]-3-yl)- (CA INDEX NAME)



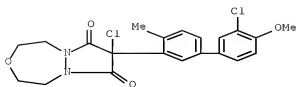
RN 845896-48-2 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(2'-chloro-5'-methoxy-4-methyl[1,1'-biphenyl]-3-yl)tetrahydro- (CA INDEX NAME)



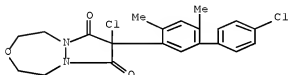
RN 845896-49-3 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(3'-chloro-4'-methoxy-4-methyl[1,1'-biphenyl]-3-yl)tetrahydro- (CA INDEX NAME)



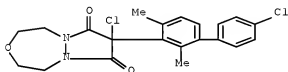
RN 845896-50-6 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(4'-chloro-4,6-dimethyl[1,1'-biphenyl]-3-yl)tetrahydro- (CA INDEX NAME)



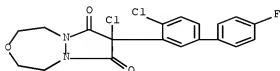
RN 845896-51-7 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(4'-chloro-2,4-dimethyl[1,1'-biphenyl]-3-yl)tetrahydro- (CA INDEX NAME)



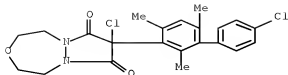
RN 845896-52-8 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(4'-chloro-4'-fluoro[1,1'-biphenyl]-3-yl)tetrahydro- (CA INDEX NAME)



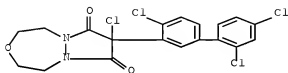
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CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(4'-chloro-2,4,6-trimethyl[1,1'-biphenyl]-3-yl)tetrahydro- (CA INDEX NAME)



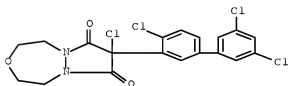
RN 845896-54-0 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-2,4,4'-trimethyl-1,1'-biphenyl-3-yl- (CA INDEX NAME)



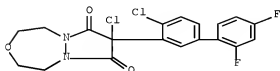
RN 845896-55-1 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-3,4,5'-trichloro-1,1'-biphenyl-3-yl- (CA INDEX NAME)



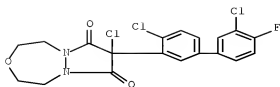
RN 845896-56-2 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(4-chloro-2',4'-difluoro-1,1'-biphenyl-3-yl)-tetrahydro- (CA INDEX NAME)



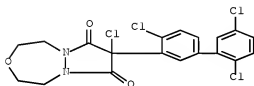
RN 845896-57-3 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(3',4'-dichloro-4'-fluoro-1,1'-biphenyl-3-yl)-tetrahydro- (CA INDEX NAME)



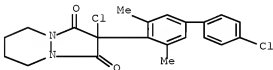
RN 845896-58-4 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chlorotetrahydro-8-(2',4,5'-trichloro[1,1'-biphenyl]-3-yl)- (CA INDEX NAME)



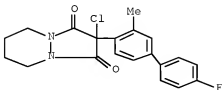
RN 845896-59-5 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazine-1,3(2H)-dione, 2-chloro-2-(4'-chloro-3,5-dimethyl[1,1'-biphenyl]-4-yl)tetrahydro- (CA INDEX NAME)



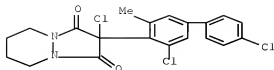
RN 845896-60-8 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazine-1,3(2H)-dione, 2-chloro-2-(4'-fluoro-3-methyl[1,1'-biphenyl]-4-yl)tetrahydro- (CA INDEX NAME)



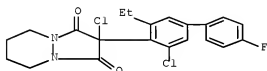
RN 845896-61-9 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazine-1,3(2H)-dione, 2-chloro-2-(3,4'-dichloro-5-methyl[1,1'-biphenyl]-4-yl)tetrahydro- (CA INDEX NAME)



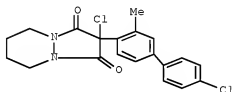
RN 845896-62-0 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazine-1,3(2H)-dione, 2-chloro-2-(3-chloro-5-ethyl-4'-fluoro[1,1'-biphenyl]-4-yl)tetrahydro- (CA INDEX NAME)



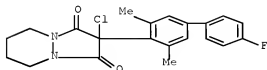
RN 845896-63-1 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazine-1,3(2H)-dione, 2-chloro-2-(4'-chloro-3-methyl[1,1'-biphenyl]-4-yl)tetrahydro- (CA INDEX NAME)



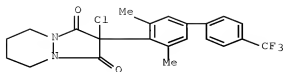
RN 845896-64-2 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazine-1,3(2H)-dione, 2-chloro-2-(4'-fluoro-3,5-dimethyl[1,1'-biphenyl]-4-yl)tetrahydro- (CA INDEX NAME)



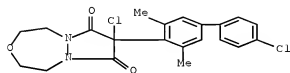
RN 845896-65-3 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazine-1,3(2H)-dione, 2-chloro-2-[3,5-dimethyl-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]tetrahydro- (CA INDEX NAME)



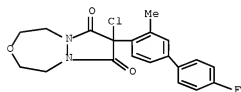
RN 845896-66-4 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(4'-chloro-3,5-dimethyl[1,1'-biphenyl]-4-yl)tetrahydro- (CA INDEX NAME)



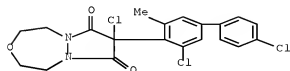
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CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(4'-fluoro-3-methyl[1,1'-biphenyl]-4-yl)tetrahydro- (CA INDEX NAME)



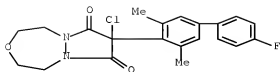
RN 845896-68-6 CAPLUS

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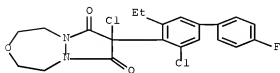
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CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(4'-fluoro-3,5-dimethyl[1,1'-biphenyl]-4-yl)tetrahydro- (CA INDEX NAME)



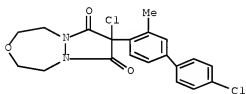
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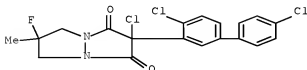
RN 845896-71-1 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione, 8-chloro-8-(4'-chloro-3-methyl[1,1'-biphenyl]-4-yl)tetrahydro- (CA INDEX NAME)



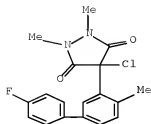
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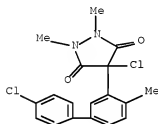


RN 845896-73-3 CAPLUS

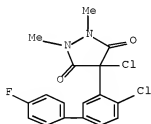
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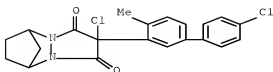
RN 845896-74-4 CAPLUS

CN 3,5-Pyrazolidinedione, 4-chloro-4-(4'-chloro-4-methyl[1,1'-biphenyl]-3-yl)-
1,2-dimethyl- (CA INDEX NAME)

RN 845896-75-5 CAPLUS

CN 3,5-Pyrazolidinedione, 4-chloro-4-(4-chloro-4'-fluoro[1,1'-biphenyl]-3-yl)-
1,2-dimethyl- (CA INDEX NAME)

RN 845896-76-6 CAPLUS

CN 5,8-Methano-1H-pyrazolo[1,2-a]pyridazine-1,3(2H)-dione,
2-chloro-2-(4'-chloro-4-methyl[1,1'-biphenyl]-3-yl)tetrahydro- (CA INDEX
NAME)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 1999:282204 CAPLUS Full-text

DOCUMENT NUMBER: 130:282069

TITLE: Preparation of 4-aryl-4-substituted pyrazolidine-3,5-dione derivatives

INVENTOR(S): Takahashi, Nobuyoshi; Nakagawa, Hirofumi; Endo, Yoshinori

PATENT ASSIGNEE(S): Otsuka Kagaku Kabushiki Kaisha, Japan

SOURCE: PCT Int. Appl., 27 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

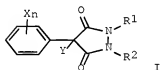
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9920610	A1	19990429	WO 1998-JP4525	19981007
W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9894578	A	19990510	AU 1998-94578	19981007
EP 1026159	A1	20000809	EP 1998-947767	19981007
R: AT, CH, DE, ES, FR, GB, IT, LI				
US 6180568	B1	20010130	US 2000-509821	20000419
PRIORITY APPLN. INFO.:				
			JP 1997-307933	A 19971021
			WO 1998-JP4525	W 19981007

OTHER SOURCE(S): MARPAT 130:282069

GI



AB Title compds. I (R1, R2 = C1-4 alkyl; R1R2 = saturated or unsatd. divalent C3-4 hydrocarbon group which may be substituted by C1-4 alkyl or halo; X = C1-4 alkyl, C1-4 haloalkyl, halo; Y = halo, NO2; n = 0, 1, 2, 3), useful as acaricides, insecticides, or herbicides, were prepared. Thus, reaction of 1,2-dimethyl-4-(2,4,6-trimethylphenyl)pyrazolidine-3,5-dione with N-chlorosuccinimide in CCl4 in the presence of benzoyl peroxide gave 78% 4-chloro-1,2-dimethyl-4-(2,4,6-trimethylphenyl)pyrazolidine-3,5-dione (II). II showed acaricidal, insecticidal, and herbicidal activities.

IT 222850-82-0P 222850-83-1P 222850-84-2P

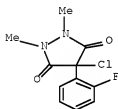
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 222851-26-5P 222851-27-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of pyrazolidinediones as acaricides, insecticides, and herbicides)

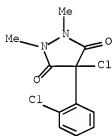
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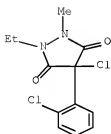
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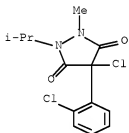
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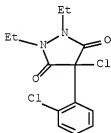
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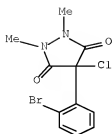
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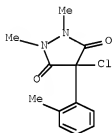
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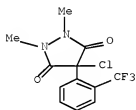
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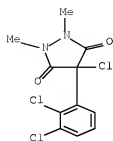
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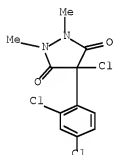


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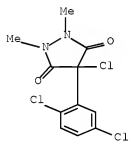
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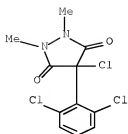
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RN 222850-94-4 CAPLUS
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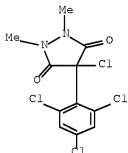


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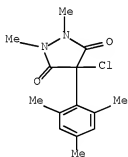
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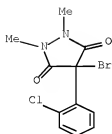
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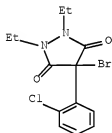
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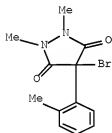
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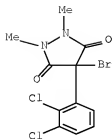
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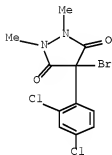
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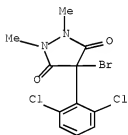
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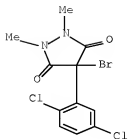
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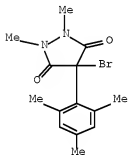


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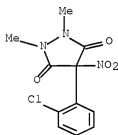
CN 3,5-Pyrazolidinedione, 4-bromo-4-(2,5-dichlorophenyl)-1,2-dimethyl- (CA
INDEX NAME)



RN 222851-11-8 CAPLUS

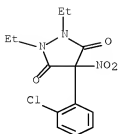
CN 3,5-Pyrazolidinedione, 4-bromo-1,2-dimethyl-4-(2,4,6-trimethylphenyl)-
(CA INDEX NAME)

RN 222851-12-9 CAPLUS

CN 3,5-Pyrazolidinedione, 4-(2-chlorophenyl)-1,2-dimethyl-4-nitro- (CA INDEX
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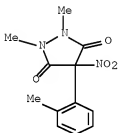
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CN 3,5-Pyrazolidinedione, 4-(2-chlorophenyl)-1,2-diethyl-4-nitro- (CA INDEX
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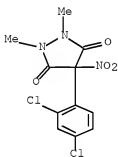
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CN 3,5-Pyrazolidinedione, 1,2-dimethyl-4-(2-methylphenyl)-4-nitro- (CA INDEX NAME)



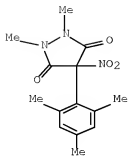
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CN 3,5-Pyrazolidinedione, 4-(2,4-dichlorophenyl)-1,2-dimethyl-4-nitro- (CA INDEX NAME)



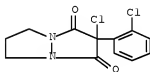
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CN 3,5-Pyrazolidinedione, 1,2-dimethyl-4-nitro-4-(2,4,6-trimethylphenyl)- (CA INDEX NAME)



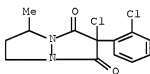
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CN 1H,5H-Pyrazolo[1,2-a]pyrazole-1,3(2H)-dione, 2-chloro-2-(2-chlorophenyl)dihydro- (9CI) (CA INDEX NAME)



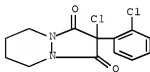
RN 222851-20-9 CAPLUS

CN 1H,5H-Pyrazolo[1,2-a]pyrazole-1,3(2H)-dione, 2-chloro-2-(2-chlorophenyl)dihydro-5-methyl- (9CI) (CA INDEX NAME)



RN 222851-21-0 CAPLUS

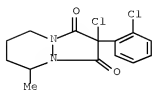
CN 1H-Pyrazolo[1,2-a]pyridazine-1,3(2H)-dione, 2-chloro-2-(2-chlorophenyl)tetrahydro- (CA INDEX NAME)



RN 222851-22-1 CAPLUS

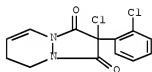
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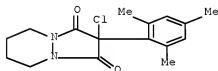
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CN 1H-Pyrazolo[1,2-a]pyridazine-1,3(2H)-dione, 2-chloro-2-(2-chlorophenyl)-5,6-dihydro- (CA INDEX NAME)



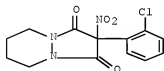
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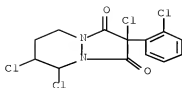
RN 222851-26-5 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazine-1,3(2H)-dione, 2-(2-chlorophenyl)tetrahydro-2-nitro- (CA INDEX NAME)



RN 222851-27-6 CAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazine-1,3(2H)-dione, 2,5,6-trichloro-2-(2-chlorophenyl)tetrahydro- (CA INDEX NAME)

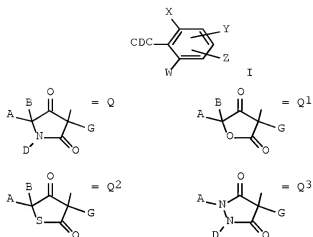


REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 3 OF 4 MARPAT COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 144:144757 MARPAT Full-text
 TITLE: Selective insecticidal and/or acaricidal compositions based on cyclic dicarbonyl compounds and safeners
 INVENTOR(S): Fischer, Reiner; Reckmann, Udo; Rosinger, Chris; Sanwald, Erich; Arnold, Christian
 PATENT ASSIGNEE(S): Bayer CropScience AG, Germany
 SOURCE: PCT Int. Appl., 89 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

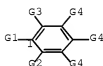
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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GI



AB The title insecticidal and/or acaricidal compns. comprise a cyclic dicarbonyl compound I [W, Z = H, halo, alkyl, alkenyl, alkynyl, NO₂, CN, etc.; X = halo, alkyl, alkenyl, alkynyl, alkoxy, alkylthio, NO₂, CN, etc.; Y = H, halo, (halo)alkyl, etc.; CDC = Q, Q¹, Q², Q³; A = H, (halo)alkyl, alkenyl, cycloalkyl, (un)substituted heterocyclyl, etc.; B = H, alkyl or alkoxyalkyl; ACB = cycle; D = H, (un)substituted alkyl, alkenyl, alkynyl, etc.; ACD = cycle; G = halo or NO₂] and safeners (MON-4660, dicyclonon, benoxacor, etc.).

MFSTP 1



G1 = 61

⁶¹8-⁶¹32

G2 = F
 G3 = F
 G5 = F
 G32 = 46-60 43-1



Patent location: claim 1

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 4 OF 4 MARPAT COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 141:135691 MARPAT Full-text

TITLE: Selective herbicidal compositions comprising cyclic dicarbonyl compounds and safeners

INVENTOR(S): Feucht, Dieter; Fischer, Reiner; Lehr, Stefan; Bojack, Guido; Auler, Thomas; Hills, Martin; Rosinger, Chris; Willms, Lothar; Ziemer, Frank

PATENT ASSIGNEE(S): Bayer Cropscience Ag, Germany

SOURCE: Ger. Offen., 38 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

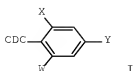
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

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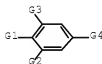
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DE 10301806	A1	20040729	DE 2003-10301806	20030120
AU 2004206721	A1	20040805	AU 2004-206721	20040107
CA 2513510	A1	20040805	CA 2004-2513510	20040107
WO 2004064520	A1	20040805	WO 2004-EP38	20040107
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
EP 1587367	A1	20051026	EP 2004-700451	20040107
EP 1587367	B1	20070523		
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BR 2004006825	A	20051227	BR 2004-6825	20040107
CN 1761396	A	20060419	CN 2004-80007513	20040107
JP 2006515366	T	20060525	JP 2006-500521	20040107
AT 362703	T	20070615	AT 2004-700451	20040107
ES 2286591	T3	20071201	ES 2004-700451	20040107
MX 2005PA07656	A	20050930	MX 2005-PA7656	20050718
US 20060160703	A1	20060720	US 2006-542513	20060221
PRIORITY APPLN. INFO.: DE 2003-10301806 20030120				
WO 2004-EP38 20040107				

GI



AB The invention concerns selective herbicidal compns. comprising a substituted, cyclic dicarbonyl compound and a safener, in particular cloquintocet-mexyl and mefenpyr di-Et. The substituted, cyclic dicarbonyl compound is I [W = H, halo, (halo)alkyl, alkenyl, alkynyl, NO₂, CN, etc.; X = halo, (halo)alkyl, alkyl, alkenyl, alkynyl, etc.; Y = H, (halo)alkyl, haloalkoxy, NO₂, CN, (un)substituted Ph or heteroaryl; CDC = Q, Q1, etc.; A = H, (halo)alkyl, (halo)alkenyl, etc.; B = H, alkyl or alkoxyalkyl; D = H, (un)substituted alkyl, alkenyl, alkynyl, etc.; ACB = carbocyclyl or heterocyclyl; ACBD = heterocyclyl; G = halo or NO₂].

MSR 1



G1 = 43



G2 = F
G3 = F
G5 = F

Patent location: claim 1

=> d his nofil

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L1 STR
L2 8 SEA SSS SAM L1
L3 STR L1
L4 7 SEA SSS SAM L3

L5 STR L3
L6 7 SEA SSS SAM L5
L7 102 SEA SSS FUL L5

FILE 'CAPLUS' ENTERED AT 15:46:09 ON 17 JUN 2008
L8 2 SEA ABB=ON PLU=ON L7

FILE 'WPIX' ENTERED AT 15:46:18 ON 17 JUN 2008
L9 8 SEA SSS SAM L5
L10 76 SEA SSS FUL L5
L11 2 SEA ABB=ON PLU=ON L10/DCR

FILE 'MARPAT' ENTERED AT 15:46:41 ON 17 JUN 2008
L12 0 SEA SSS SAM L5
L13 4 SEA SSS FUL L5

FILE 'BEILSTEIN' ENTERED AT 15:47:02 ON 17 JUN 2008
L14 0 SEA SSS SAM L5
L15 0 SEA SSS FUL L5

FILE 'CAPLUS' ENTERED AT 15:47:18 ON 17 JUN 2008
D QUE L8

FILE 'WPIX' ENTERED AT 15:47:36 ON 17 JUN 2008
D QUE L11

FILE 'MARPAT' ENTERED AT 15:47:41 ON 17 JUN 2008
D QUE L13

FILE 'CAPLUS, WPIX, MARPAT' ENTERED AT 15:47:49 ON 17 JUN 2008
L16 4 DUP REM L8 L11 L13 (4 DUPLICATES REMOVED)
ANSWERS '1-2' FROM FILE CAPLUS
ANSWERS '3-4' FROM FILE MARPAT
D L16 IBIB ABS HITSTR 1-2
D L16 IBIB ABS QHIT 3-4